

United States Department of Agriculture  
Animal and Plant Health Inspection Service  
4700 River Road  
Riverdale, MD 20737

## Permit to Move Live Plant Pests, Noxious Weeds, and Soil

Importation  
Regulated by 7 CFR 330

This permit was generated electronically via the ePermits system

<b>PERMITTEE NAME:</b>	Dr. Frisby Smith	<b>PERMIT NUMBER:</b>	P526P-17-00352
<b>ORGANIZATION:</b>	Bayer CropScience - Biologics	<b>APPLICATION NUMBER:</b>	P526-171122-014
<b>ADDRESS:</b>	890 Embarcadero Drive West Sacramento, CA 95605	<b>FACILITY NUMBER:</b>	3279
<b>MAILING ADDRESS:</b>	890 Embarcadero Drive West Sacramento, CA 95605	<b>HAND CARRY:</b>	No
<b>PHONE:</b>	916-661-3322	<b>DATE ISSUED:</b>	01/16/2018
<b>FAX:</b>		<b>DATE AMENDED:</b>	03/26/2018
<b>DESTINATION:</b>	890 Embarcadero Drive, West Sacramento, CA 95605	<b>EXPIRES:</b>	01/16/2021
<b>DESIGNATED PORTS:</b>			

Under the conditions specified, this permit authorizes the following:

<u>Regulated Article</u>	<u>Life Stage(s)</u>	<u>Intended Use</u>	<u>Shipment Origins</u>	<u>Originally Collected</u>	<u>Culture Designation</u>
Bacillus amyloliquefaciens	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations	
Bacillus amyloliquefaciens subsp. plantarum	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations	
Bacillus firmus	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations	
Bacillus licheniformis	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations	

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*Vickie Brewster*  
**Vickie Brewster**

DATE

03/26/2018

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Bacillus megaterium	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Bacillus mycoides	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Bacillus pumilus	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Bacillus subtilis	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Bacillus thuringiensis	Any	Research - Greenhouse (growth chamber and lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Bacteria	Any	Research - Growth Chamber (lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Fungi	Any	Research - Growth Chamber (lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Pseudomonas spp.	Any	Research - Growth Chamber (lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Streptomyces class	Any	Research - Growth Chamber (lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations
Trichoderma spp.	Any	Research - Growth Chamber (lab included)	Asia, Australia, Caribbean Islands (except Puerto Rico and US Virgin Islands), Central America, Europe, North America (except USA), South America	Originally Collected from Foreign Locations

### SPECIAL INSTRUCTIONS TO INSPECTORS

See permit conditions below

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## INSTRUCTIONS TO DHS CBP AGRICULTURAL SPECIALISTS:

### SHIPMENT BY BONDED CARRIER

1. Confirm that the carrier of the shipment imported under this USDA PPQ 526 permit is commercially bonded.
2. Confirm that the imported shipment has a valid USDA PPQ Form 599 Red/White label attached to the exterior for routing to a USDA APHIS PPQ Inspection Station or other "Designated Port" as stated on the Permit. A valid label will have the permit number, expiration date, label number, and address of a USDA APHIS PPQ Plant Inspection Station/Designated Port.
3. Validate the permit in ePermits using the CBP search feature.
4. If a valid PPQ Form 599 Red/White label is not attached to the exterior of the package or the label has been covered or is otherwise not legible, then forward to the nearest USDA APHIS PPQ Plant Inspection Station.
5. If the address on the airway bill does not match the address on the PPQ Form 599 Red/White label then forward the package to the nearest USDA APHIS PPQ Plant Inspection Station/designated port shown on the PPQ Form 599 label. All costs associated with rerouting misaddressed packages will be assumed by the permit holder.

### INSTRUCTIONS TO USDA PPQ INSPECTORS AT PLANT INSPECTION STATIONS:

Follow the instructions in the Plant Inspection Station Manual for Low Risk Organisms - Arthropods or Microbials Red and White Label Packages (may be opened outside a biosafety cabinet).

For questions or concerns, contact the USDA APHIS PPQ Pest Permit Branch in Riverdale, MD, at 301-851-2046, toll free 866-524-5421.

### PERMIT GUIDANCE

Receipt or use of foreign isolates or samples from countries under sanctions requires specific permission from the U.S. Department of Treasury (see <http://www.treasury.gov/resource-center/sanctions/Programs/Pages/Programs.aspx> for current country/regional listings) for current country listings.

This permit does not authorize importation, interstate movement, possession, and/or use of strains of genetically engineered regulated organisms (created by the use of recombinant DNA technology). If an animal pathogen is identified in your shipment, to ensure appropriate safeguarding, please refer to [http://www.aphis.usda.gov/import\\_export/animals/animal\\_import/animal\\_imports\\_anproducts.sh](http://www.aphis.usda.gov/import_export/animals/animal_import/animal_imports_anproducts.sh) tml.

This permit does not fulfill the requirements of other federal or state regulatory authorities. As appropriate, please contact the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, the U.S. Food and Drug Administration, the Centers for Disease Control and Prevention, the APHIS Veterinary Services unit, or your States Department of Agriculture to ensure proper permitting.

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If you are considering renewal of this permit, an application should be submitted at least 90 days prior to the expiration date of this permit to ensure continued coverage. Permits requiring containment facilities may take a longer period of time to process.

### PERMIT CONDITIONS


This permit authorizes the importation of pure cultures of the listed organisms or host material infected with the listed organisms from the listed locations to Frisby Smith with Bayer CropScience Biologics in West Sacramento, California for laboratory, growth chamber, and greenhouse research in Containment Facility #3279 (CF#3279). Organisms may be imported as pure cultures, fermentation products, fertilizer mixes, and/or infected host material such as plant roots.

Plant inoculations in the laboratory, growth chambers, and greenhouse are authorized for organisms listed on this permit at the species level only. Plant inoculations using organisms listed on this permit only at the genus level or higher (ex. Bacteria, Fungi, Streptomyces class, Pseudomonas spp. and Trichoderma spp.) on this permit are restricted to the laboratory and growth chambers.

1. The permit holder must:
  - (a) comply with all requirements and permit conditions,
  - (b) maintain a valid permit so long as the regulated organisms are alive,
  - (c) this permit cannot be assigned or transferred to other persons.
  - (d) permittee must maintain a residence in the United States
  - (e) safeguard and dispose of the regulated organisms during the term of this permit,
  - (f) take all necessary precautions to prevent the unauthorized release of regulated organisms. In the event of an unauthorized release, the permit holder must notify the permit unit,
  - (g) adequately mitigate environmental impacts resulting from unauthorized release of regulated organisms,
  - (h) contain any/all organisms not authorized under this permit,
  - (i) notify the permit unit of the receipt of unauthorized organisms,
  - (j) notify the permit unit if facilities are destroyed or decommissioned for any reason,
  - (k) maintain an official permanent work assignment at the address on this permit,
  - (l) notify the permit unit in advance of any change in the permit holder's work assignment,
  - (m) destroy all regulated organisms prior to departure unless other arrangements are confirmed by the permit unit prior to the permit holder's departure, and
  - (n) notify the permit unit of the destruction of regulated organisms.

Notifications to the permit unit must be made via 866-524-5421 or [pest.permits@aphis.usda.gov](mailto:pest.permits@aphis.usda.gov) within one business day of the event triggering a notification.

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2. This permit does not authorize movement or use of plant pathogens listed in the Public Health Security and Bioterrorism Preparedness and Response Act of 2002. If any organism listed as a Select Agent is identified from materials associated with this research, the permit holder is required to notify APHIS, Agricultural Select Agent Program (ASAP) immediately by phone at 301-851-3300, and within seven (7) days submit APHIS/CDC Form 4 (Report of Identification of a Select Agent or Toxin in a Clinical or Diagnostic Laboratory) to APHIS, ASAP; 4700 River Rd, Unit 2, Riverdale, MD 20737 (see instructions at: [https://www.aphis.usda.gov/wps/portal/aphis/ourfocus/animalhealth/sa\\_import\\_into\\_us/sa\\_ag\\_select\\_agent/ct\\_ag\\_bioterr\\_toxinlist/](https://www.aphis.usda.gov/wps/portal/aphis/ourfocus/animalhealth/sa_import_into_us/sa_ag_select_agent/ct_ag_bioterr_toxinlist/)). Failure to comply with this requirement is a violation of the Agricultural Bioterrorism Protection Act of 2002.
3. Without prior notice and during reasonable hours, authorized PPQ and/or State regulatory officials shall be allowed to inspect the conditions associated with the regulated organisms authorized under this permit.
4. All organisms must be shipped in packages of such materials and/or construction so as to prevent the unauthorized dissemination or release of regulated articles.
5. Upon receipt, all packages must be opened within a laminar flow biosafety cabinet, that meets or exceeds Class II, Type A, in the permit holder's assigned laboratory facilities within CF#3279 to ensure the shipment contains only permitted organisms and is free of contaminants. Cultures must be in sealed containers during transport to or within the permit holder's assigned research facilities.
6. All packaging materials in contact with organisms and/or contaminants and all un-used and leftover organisms must be sufficiently heat or chemically treated to kill all plant pests and contaminants prior to disposal.
7. Plant inoculations in the laboratory, growth chambers, and greenhouse are authorized for organisms listed on this permit at the species level only.

Plant inoculations using organisms listed on this permit only at the genus level or higher (ex. Bacteria, Fungi, Streptomyces class, Pseudomonas spp. and Trichoderma spp.) on this permit are restricted to the laboratory and growth chambers. If species are identified that are not currently listed on this permit, this permit must be amended to allow greenhouse work with those species.

8. All research activities, plant inoculations and subsequent disease development must occur in laboratories, growth chambers and/or greenhouses within CF#3279 that have been inspected and found adequate for containment of the organisms received under this permit. Access to laboratories, growth chambers and/or greenhouses must be restricted to authorized personnel.
9. Organisms must be maintained or stored in the permit holder's research facilities within CF#3279. All stored organisms must be kept in a locked area with access restricted to authorized personnel.


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10. A separate authorization from USDA APHIS ( a new PPQ 526 permit) is required for the possession/ maintenance of live regulated organisms received under this permit beyond the expiration of this permit. Otherwise, all regulated organisms received under this permit must be devitalized prior to the expiration of this permit.
11. Upon completion of research, all inoculated plants, plant material, soil and/or growing media must be treated by heat or chemical means sufficient to kill, destroy, or otherwise deactivate plant pathogens. All materials used to conduct research must be decontaminated prior to reuse or disposal.
12. Growth chambers and incubators that contained infected plants must be decontaminated at the end of each experiment.
13. If Autoclaving Waste
  - a. Waste must be autoclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes.
  - b. Autoclave tape or other indicators must be placed on each bag or sharps container prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color change before disposal.
  - c. The autoclave log must be completed by each user for each autoclave cycle. All parameters must be noted as listed on the log for each autoclave load.
  - d. If the autoclave does not attain the minimum time and/or temperature or the autoclave tape does not change color, a notation must be made in the comment section of the autoclave log. The load must then be re-autoclaved after placing new tape on the material. If minimum time and temperature is not attained on the second cycle, users must contact the person responsible for maintaining the unit to initiate repairs. Waste must then be treated at the alternate autoclave facility.
  - e. Thermometers on the autoclave must be calibrated annually, and a written record must be maintained. Calibration must be done by an authorized autoclave service company during routine servicing.
  - f. Every 6 months, you must use a commercially available test indicator kit that uses bacterial spores *Bacillus stearothermophilus* that are rendered unviable at 250 degrees F or 121 degrees C. For the test, ampoules of *B. stearothermophilus* are autoclaved along with a load of waste. Upon completion of the cycle, the ampoules are incubated for 48 hours and then observed for any sign of growth, which indicates insufficient sterilization. If any growth is observed, you must have the autoclave serviced and retested.
14. There is to be no further movement or distribution of organisms without prior approval from State and Federal regulatory officials.

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# 15. Reporting Requirements:


The permit holder or authorized individual must notify APHIS Plant Protection and Quarantine (PPQ) Pests, Pathogens, and Biocontrol Permits Branch (PPBP) within 10 working days of the confirmation that an organism is identified as (a) a species new to science, (b) an organism not known to occur in the United States, or (c) a pest managed by an APHIS program (program pest; [http://www.aphis.usda.gov/plant\\_health/plant\\_pest\\_info/index.shtml](http://www.aphis.usda.gov/plant_health/plant_pest_info/index.shtml)). Include the permit number, the origins and dates of receipt of the samples, and the identified organism. The notification must be sent to USDA/APHIS/PPQ/PPBP, 4700 River Rd., Unit 133, Riverdale, MD 20737, faxed to 301-734-8700 or emailed to [Pest.Permits@aphis.usda.gov](mailto:Pest.Permits@aphis.usda.gov) Attn: Carl Schulze, as Word, Excel or pdf documents. Notifications must also be sent to the State Plant Health Director (SPHD) and State Plant Regulatory Official (SPRO) of the state of origin of the specific sample within 10 working days (see [http://www.aphis.usda.gov/services/report\\_pest\\_disease/report\\_pest\\_disease.shtml](http://www.aphis.usda.gov/services/report_pest_disease/report_pest_disease.shtml) and <http://www.nationalplantboard.org/member/index.html> for contact information).

16. Under the Plant Protection Act, individuals or corporations who fail to comply with these conditions and authorizations, or who forge, counterfeit, or deface permits or shipping labels may receive civil or criminal penalties, and may have all current permits cancelled and future permit applications denied.
17. Upon issuance of this permit (i.e., a signed PPQ 526), you will need to request the PPQ Form 599 Red/White labels at least 5 days in advance. If you applied online using ePermits, you may request the labels using the My Shipments/Labels feature. Otherwise, send your request to [Redandwhitelabelrequest@aphis.usda.gov](mailto:Redandwhitelabelrequest@aphis.usda.gov). All email requests must come from the permit holder or appointee. If requested by the appointee the permit holder must be Ccd on all requests. Specify the approved port as listed on the permit and the total number of labels needed in multiples of 4. You may request additional labels the same way. APHIS-PPQ will send you the labels by email as a pdf. You are responsible for printing this pdf to produce your individual bar coded import labels. You may email the pdf to your suppliers for them to print and attach to the shipment. You or your suppliers must print all labels in color. Failure to do so may result in refused entry or destruction of your package.

A label must be attached with clear tape to the exterior of each package being imported under this permit. The labels will include detailed shipping instructions. You are responsible for instructing your shipper to carefully follow these instructions. You are responsible for each import shipping label issued under this permit.

Enclose the following supplemental information in each shipment:

- Permittee Name
- Permit number
- Label number

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Underlying packaging/wrapping must carry the address, billing, and any other information required to direct the shipment to its final destination (i.e., the permit holder's address; N.B., USDA APHIS does not defray any additional shipping costs incurred for transiting the shipment through an inspection station as the initial US destination).

**END OF PERMIT CONDITIONS**

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